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### NOTICE OF ALLOWANCE AND FEE(S) DUE

22801

7590

01/28/2009

LEE & HAYES, PLLC 601 W. RIVERSIDE AVENUE SUITE 1400 SPOKANE, WA 99201

EXAMINER				
COLIN, CARL G				
ART UNIT	PAPER NUMBER			

2436 DATE MAILED: 01/28/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/614.890	07/12/2000	Darko Kirovski	MS1-0587US	2503

TITLE OF INVENTION: AUDIO WATERMARKING WITH COVERT CHANNEL AND PERMUTATIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	04/28/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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SPOKANE, WA	x 99201								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CON	FIRMATION NO.
09/614,890	07/12/2000	•	Darko Kirovski				MS1-0587US		2503
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nonprovisional	NO	\$1510	\$0		\$0	\$1510			04/28/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS						
COLIN, C	CARL G	2436	713-176000	_					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent	ting on the patent front page, list mes of up to 3 registered patent attorneys DR, alternatively, me of a single firm (having as a member a attorney or agent) and the names of up to d patent attorneys or agents. If no name is name will be printed.					
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The fied below, no assignee eletion of this form is NO	data will appear on th	ne pa g an a	tent. If an assignous issignment. and STATE OR C	OUNT	TRY)		
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601 W. RIVERSI	DE AVENUE		ART UNIT	PAPER NUMBER	
SUITE 1400 SPOKANE, WA 99201		2436			
			DATE MAILED: 01/28/200	9	

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 326 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 326 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	09/614,890	KIROVSKI ET AL.				
Notice of Allowability	Examiner	Art Unit				
	CARL COLIN	2436				
	CARL COLIN	2430				
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED  i) or other appropriate comr  RIGHTS. This application is	in this application. If not included nunication will be mailed in due cour	se. THIS			
1. $\boxtimes$ This communication is responsive to <u>RCE filed on 12/31/2</u>	<u>2008</u> .					
2. X The allowed claim(s) is/are <u>1,4,5,7,15,18,20 and 43-47</u> .						
3. ☐ Acknowledgment is made of a claim for foreign priority u  a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents hav	re been received.	,				
2. Certified copies of the priority documents hav	•	<del></del>				
3. Copies of the certified copies of the priority do	ocuments have been receiv	ed in this national stage application t	rom the			
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the require	ments			
4. A SUBSTITUTE OATH OR DECLARATION must be submiNFORMAL PATENT APPLICATION (PTO-152) which give			CE OF			
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	ıst be submitted.					
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Revi	ew ( PTO-948) attached				
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	<b>_</b> •					
<ul><li>(b) ☐ including changes required by the attached Examiner Paper No./Mail Date</li></ul>	's Amendment / Comment	or in the Office action of				
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			k) of			
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			the			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of	Informal Patent Application				
2. $\square$ Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),				
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No 7. ⊠ Examiner	Paper No./Mail Date 7. ☑ Examiner's Amendment/Comment				
Paper No./Mail Date <u>12/31/2008</u>						
<ul> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> <li>8. ☐ Examiner's Statement of Reasons for Allowance</li> <li>9. ☐ Other</li> </ul>						
/Carl Calin/	9. ☐ Otile!	<del></del> ·				
/Carl Colin/ Primary Examiner, Art Unit 2436						

Application/Control Number: 09/614,890 Page 2

Art Unit: 2436

#### **DETAILED ACTION**

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/31/2008 has been entered.

1.1 In response to communications filed on 12/31/2008, Applicant has amended claim 1; the following claims 1, 4-5, 7, 8, 15, 18, 20, and 43-47 are presented for examination.

# Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 12/31/2008 was filed after the mailing date of the Notice of Allowance on 10/2/2008. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

### **EXAMINER'S AMENDMENT**

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's attorney Trevor Lind on 1/21/2009.

The application has been amended as follows:

Claim 8. (Canceled)

Claim 20. (Currently Amended) An apparatus comprising:

a processor;

a covert-channel-encoder executable on the processor to:

receive a first data pattern of discrete values which are bits of a watermark and a second data pattern of discrete values which are bits of a covert message;

impose a discrete value of the second data pattern over one or more discrete values of the first data pattern to generate a third data pattern, wherein the imposition is carried out by performing a Boolean operation with a discrete value of the second data pattern and multiple discrete values of the first data pattern;

process a digital signal into a series of bitframes, wherein each bitframe includes a set of frames, and wherein each frame includes a set of blocks, and

encode the third data pattern into the digital signal, wherein a different bit of the watermark is encoded in each frame of a plurality

Application/Control Number: 09/614,890 Page 4

Art Unit: 2436

of bitframes of the digital signal, and wherein a same bit of the covert message is encoded in each frame of <u>a respective</u> bitframe, wherein the same bit of the covert message is encoded in each frame of the respective bitframe at a different frequency with respect to each frame.

### Allowable Subject Matter

4. Claims 1, 4, 5, 7, 15, 18, 20, and 43-47 are allowed.

#### Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CARL COLIN whose telephone number is (571)272-3862. The examiner can normally be reached on Monday through Thursday, 8:00-6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser G. Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/614,890 Page 5

Art Unit: 2436

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Carl Colin/

Primary Examiner, Art Unit 2436

January 21, 2009